

IN THE CLAIMS

1-30. (canceled)

31. (currently amended) ★ An *in vitro* method of screening for agents that can regulate serine protease activity of a human transmembrane serine protease, comprising the steps of:

contacting a test compound with a polypeptide comprising an amino acid sequence selected from the group consisting of: (a) the amino acid sequence shown in SEQ ID NO:12₇ and (b) the amino acid sequence encoded by a cDNA insert contained within plasmid pCRII-TMSP3 (ATCC Accession No. PTA-3433); and

detecting binding of the test compound to the polypeptide, wherein a test compound that binds to the polypeptide is identified as a potential agent for regulating the serine protease activity of the human transmembrane serine protease.

32. (original) The method of claim 31 wherein the step of contacting is in a cell.

33-34. (canceled)

35. (original) The method of claim 31 wherein the step of contacting is in a cell-free system.

36. (original) The method of claim 31 wherein the polypeptide comprises a detectable label.

37. (original) The method of claim 31 wherein the test compound comprises a detectable label.

38. (original) The method of claim 31 wherein the polypeptide is bound to a solid support.

39. (original) The method of claim 31 wherein the test compound is bound to a solid support.

40-73. (canceled)